

a carbon monoxide adsorption step for adsorbing and separating carbon monoxide by bringing the produced gas scrubbed in said gas scrubbing step into contact with carbon monoxide adsorbent.

20. (New) A hydrogen production and supply method by gasification of combustibles such as combustible wastes or coal, said method comprising a gasification step for gasifying combustibles and a gas processing step for producing hydrogen by refining the gas produced in said gasification step, hydrogen obtained in said gasification step being supplied to a fuel cell, said gas processing step comprising:

a gas scrubbing step for absorbing and removing dust and a trace amount of acid gases such as hydrogen chloride and hydrogen sulfide in the produced gas obtained in said gasification step by bringing the produced gas into contact with water or alkali solution, and

a carbon monoxide adsorption step for adsorbing and separating carbon monoxide by bringing the produced gas scrubbed in said gas scrubbing step into contact with carbon monoxide adsorbent.

21 (New) A hydrogen production method by gasification of combustibles, said method comprising a gasification step for gasifying combustibles and a gas processing step for producing hydrogen by refining the gas produced in said gasification step, said gas processing step comprising:

a gas scrubbing step for absorbing and removing dust and a trace amount of acid gases such as hydrogen chloride and hydrogen sulfide in the produced gas obtained in said gasification step by bringing the produced gas into contact with water or alkali solution;

a carbon dioxide chemical absorption step for absorbing and separating carbon dioxide in the produced gas by bringing the produced gas scrubbed in said gas scrubbing step into contact with alkaline absorption solution;